

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GHS/P504109WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/004397	International filing date (day/month/year) 15/10/2004	(Earliest) Priority Date (day/month/year) 31/10/2003
Applicant  DAVY PROCESS TECHNOLOGY LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

**4. With regard to the title,**

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

HOMOGENEOUS PROCESS FOR THE HYDROGENATION OF DICARBOXYLIC ACIDS AND/OR ANHYDRIDES THEREOF

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regards to the drawings,**

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004397

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C29/149 C07C29/17 C07C31/20 C07D315/00 C07D307/08  
B01J31/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 478 952 A (SCHWARTZ JO-ANN T) 26 December 1995 (1995-12-26) column 5, line 24 - line 56 example 16	1
A	----- US 5 047 561 A (ISOGAI SHINJI ET AL) 10 September 1991 (1991-09-10) cited in the application column 1, line 33 - line 47 column 5, line 39 - column 6, line 5 example 1	1
A	----- US 4 301 077 A (PESA FREDERICK A ET AL) 17 November 1981 (1981-11-17) cited in the application column 2, line 59 - column 3, line 41 examples	1
	-----	

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

11 January 2005

Date of mailing of the international search report

19/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Kardinal, S

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004397

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5478952	A	26-12-1995	AU 4468196 A	23-09-1996
			CN 1177310 A ,B	25-03-1998
			DE 69516181 D1	11-05-2000
			DE 69516181 T2	21-12-2000
			EP 0814905 A1	07-01-1998
			ES 2145325 T3	01-07-2000
			JP 11500958 T	26-01-1999
			WO 9627436 A1	12-09-1996
US 5047561	A	10-09-1991	JP 2082842 C	23-08-1996
			JP 4091085 A	24-03-1992
			JP 7121929 B	25-12-1995
			JP 2092020 C	18-09-1996
			JP 3112972 A	14-05-1991
			JP 7121926 B	25-12-1995
			JP 2092022 C	18-09-1996
			JP 3141273 A	17-06-1991
			JP 7121928 B	25-12-1995
			BR 9004837 A	10-09-1991
			DE 69017570 D1	13-04-1995
			DE 69017570 T2	19-10-1995
			EP 0420062 A2	03-04-1991
			KR 145318 B1	15-07-1998
			JP 2516836 B2	24-07-1996
			JP 3204870 A	06-09-1991
US 4301077	A	17-11-1981	CA 1157031 A1	15-11-1983
			DE 3166724 D1	22-11-1984
			EP 0055512 A1	07-07-1982
			JP 4059303 B	21-09-1992
			JP 57109736 A	08-07-1982
			KR 8800544 B1	13-04-1988